|                | REVISION:                                |                   |     |          |      |              |                | ENGI            | NEERING                          | DATA LIS                                                                                                                           | ST                        |                                                                                                                                                                          | *                                             | * HISTORY *                                                           |
|----------------|------------------------------------------|-------------------|-----|----------|------|--------------|----------------|-----------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------|
| DATE:          |                                          | DATA TECH:        | SOH |          | ORGN | ORGN SYMBOL: | <u>ğ</u><br>:: | ٦               |                                  | PR NR :                                                                                                                            |                           | APPLICATION:<br>C-5                                                                                                                                                      |                                               | PAGE 1 OF 1                                                           |
| CAGE:<br>17576 | S. MANUFACTURER NAME:<br>6 B.F. GOODRICH | JRER NAME:<br>UCH |     | 1        |      |              | <b>E</b> 4     | EFFER<br>4G5241 | REFERENCE NR:<br>4652417-113A    |                                                                                                                                    | NOUN:                     |                                                                                                                                                                          |                                               | 1679                                                                  |
| CAGE           | DRAWING NUMBER                           | NUMBER            |     | REV SE   | NR   | NR           | FURN DIST      | DIST            | NOUN                             |                                                                                                                                    |                           | REQUIREMENTS                                                                                                                                                             | SMENTS                                        | 102000201010                                                          |
| 98897          | 988974052417                             |                   | -   | ы        | 2000 | 0000         | ß              | <u> </u>        | LATCH.                           |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
| 98897          | 98897 LAC 0701                           |                   | \   | F        | 0000 | 0000         | Ø              | ľ               | MACHINING SPEC.                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
| 98897          | 98897 DS 30001                           |                   | -   | +        | 0000 | 0000         | S              |                 | DIMENSION INSPEC.                |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
| 98897          | 4G52418                                  |                   | ト   | A        | 1000 | 0000         | တ              | 12.             | FORGING.                         |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
| 98897          | 4053434                                  |                   | ト   | A        | 1000 | 0000         | တ              |                 | BEARING.                         |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
| 98747          | 960014                                   |                   | -   | Ť        | 1000 | 0000         | ဖ              | "               | BCO                              |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
| 98747          | 98747 00-ALC/LGMPM                       |                   | \   |          | 0004 | 0000         | Ø              |                 | ENGRG. DATA REQIS. (ATCH "A")    | CH "A")                                                                                                                            |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   |     | $\vdash$ |      |              |                |                 |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   |     |          |      |              |                |                 |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   | 7   | $\dashv$ |      |              |                |                 |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   | 7   | $\dashv$ | 1    |              |                | 1               |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   | 十   | $\dashv$ | 1    |              |                | 1               |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   | 1   | +        | 1    |              | ]              | 7               |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   | 1   | +        | 1    |              |                | $\top$          |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   | 7   | +        | 1    |              | _              | $\dashv$        |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   | 1   | +        | 1    |              |                | 1               |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   | 1   | 十        | 1    |              |                | $\dashv$        |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
| ATAN           | CTANDADD ENGRIPPEDING TEXT               | TAGE ON           |     | -        |      |              |                | 7               |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          | NG IEAL           |     |          |      |              |                |                 |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   |     |          |      |              |                |                 |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   |     |          |      |              |                |                 |                                  |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
| ENGI           | ENGINEERING DATA LIST REMARKS            | IST REMARKS       |     |          |      |              |                |                 | remo water                       |                                                                                                                                    |                           |                                                                                                                                                                          |                                               |                                                                       |
|                |                                          |                   |     |          |      |              |                |                 | C - CLASSI C - CLASSI S - FURNIS | FUKAISHED METHOD CODE LEGEND:<br>C - CLASSIFIED DOCUMENT.<br>S - FURNISHED WITH SOLICITATION.<br>M - STABLE BASE DRAWING REQUIRED; | END:<br>ATION.<br>QUIRED; | <ul> <li>X - DATA SUPPLIED (NOT IN EDCARS).</li> <li>R - FURNISHED BY PCD UPON REQUEST.</li> <li>P - PARTIAL DOCUMENT FURNISHED.</li> <li>V - VENDOR DRAWING;</li> </ul> | OT IN EDCARS).<br>UPON REQUEST.<br>FURNISHED. | G - GOV'T DOCUMENT. O - OTHERS, CONTRACTOR MUST ACQUIRE. A - DATA NOT |

| _                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          | · · · · · · · · · · · · · · · · · · ·                                                                                                |  |  |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--|--|
| REV:                                                                            | ENGINEERING DATA REQUIREMENTS  (ATTACHMENT *A*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |                                                                                                                                      |  |  |
| NOTE: MILITARY SPECIFICATIONS I/STANDARDS WILL NOT BE FURNISHED IN THE BID SET. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |                                                                                                                                      |  |  |
| 1. THE                                                                          | 1. THE FOLLOWING INSTRUCTIONS ARE FURNISHED FOR THE MANUFACTURE OF  LATCH - UPPER DRAG BRACE ASSY. STRUT NLG. ASSY. OF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |                                                                                                                                      |  |  |
| 2. PAF                                                                          | RT NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                         | 3. NATIONAL STOCK NUMBER                                                                                                                                                                                 |                                                                                                                                      |  |  |
|                                                                                 | 4G5241                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                         | 1620 00 356 1678                                                                                                                                                                                         |                                                                                                                                      |  |  |
|                                                                                 | FOLLOWING SPECIFICATION OF THE PROPERTY OF THE | ATIONS/STANDARDS, ETC., WILL BE USED IN LI                                                                                                                                                                                                                                              | EU OF THE DATA INDICATED. THE SUPER                                                                                                                                                                      | RSEDED DATA WILL NOT BE                                                                                                              |  |  |
| <b>a.</b>                                                                       | Identify to meet do or steel stamped, location, OO-AL. The serialization digit year of man receives numerous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | rawing requirements and MIL-STD-130 in 0.09" letters 0.004" - 0.007" deep in C/LILE will provide S/N location instruvill begin with the CAGE of the contraufacture, followed by a dash and a sequence intermittent contracts will start serial tract produces more than 1000 items, the | n the location indicated. If the draw<br>uctions. Serialization of item shall<br>actor named on the contract, follow<br>centially unique three (3) digit number<br>dization of item with the next number | ving does not indicate a be accomplished as follows: ved by a dash and the two (2) ber. A contractor who er in sequence of the prior |  |  |
| b.                                                                              | Machine to meet d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | drswing specifications per LAC 0701, in                                                                                                                                                                                                                                                 | n lieu of DS 30003.                                                                                                                                                                                      |                                                                                                                                      |  |  |
| c.                                                                              | (FWDC), and wet intent of NO DEFF no indications allow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | inspection per ASTM E1444, in lieu of continuous method. With the following ECTS ALLOWED is that the inspection wed. The inspector performing the inspect III, as specified in NAS-410.                                                                                                 | acceptance/rejection criteria: NO land is conducted at the required sensi                                                                                                                                | DEFECTS ALLOWED. The tivity level and there shall be                                                                                 |  |  |
| d.                                                                              | Shot peen per SAE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | E AMS-S-13165, in lieu of STP 51-501.                                                                                                                                                                                                                                                   |                                                                                                                                                                                                          |                                                                                                                                      |  |  |
| e.                                                                              | Heat treat, normali                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ize, and anneal per SAE AMS-H-6875,                                                                                                                                                                                                                                                     | in lieu of STP 54-006                                                                                                                                                                                    |                                                                                                                                      |  |  |
| f.                                                                              | forming and cutting that the required control to capping or closure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | letail metallic parts shall be cleaned to a<br>g residue, and other shop soils. Parts sh<br>leanliness and physical characteristics, a<br>are, components shall be given a final ca<br>th a cleaning solution which is compati-<br>ental standards.                                     | hall be handled and transported in s<br>and properties are preserved. As a f<br>leaning by flushing all surfaces who                                                                                     | such manner as will ensure<br>final cleaning operation prior<br>ich will be in contact with                                          |  |  |
|                                                                                 | rilling, reaming, an<br>FP 51-401.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | d honing to meet drawing specifications                                                                                                                                                                                                                                                 | s, using best shop procedures and the                                                                                                                                                                    | he following notes in lieu of                                                                                                        |  |  |
| a.                                                                              | a. High speed steel (HSS) drills shall be used to drill corrosion resistant steels.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |                                                                                                                                      |  |  |
| b.                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ISS reamers will be used for rough reaming, and final reaming of steels heat treated below 200 KSI. Carbide or remium grade hi-speed tipped reamers will be used for rough reaming of steels heat treated above 200 KSI.                                                                |                                                                                                                                                                                                          |                                                                                                                                      |  |  |
| c.                                                                              | Honing stones shall be of 150 to 500 alumium oxide grit with a medium-hard bond and preferabily a multi-head stone. Heads with steel shoes or wipers shall not be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |                                                                                                                                      |  |  |
| d.                                                                              | reaming. Holes sha<br>larger than 1/4 inch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | t be used as a final machining operation<br>ill be finished by reaming or boring. We<br>have the holes will be piloted with a center<br>we used as a final surface producing met                                                                                                        | hen jigs, fixtures, or bushings are r<br>r drill. Chemical, electrical, or elec                                                                                                                          | not used for drilling holes<br>trochemical hole producing                                                                            |  |  |
| PREPARE                                                                         | D BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                         | SYMBOL                                                                                                                                                                                                   | DATE                                                                                                                                 |  |  |
|                                                                                 | ORIN HATCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | · ·                                                                                                                                                                                                                                                                                     | LGMPM                                                                                                                                                                                                    | 29 Sep 00                                                                                                                            |  |  |
| DO-AL                                                                           | DO-ALC FORM 462, OCT 96 (EF-V1)(PerFORM PRO)  PREVIOUS EDITIONS ARE OBSOLETE  PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                          |                                                                                                                                      |  |  |

| REV:     |                                                                                                                                                                                          | ENGINEERING D                                                            | ATA REQUIREMENTS . INTINUATION                                                                                         | SHEET                                                                                          |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|          |                                                                                                                                                                                          |                                                                          | (ATTACHMENT "A")                                                                                                       |                                                                                                |
| PART I   | NUMBER                                                                                                                                                                                   |                                                                          | NATIONAL STOCK NUMBER                                                                                                  |                                                                                                |
|          | 4G52417-113A                                                                                                                                                                             |                                                                          | 1620 00 356 1678                                                                                                       |                                                                                                |
| e.       | Rough rearning, the reamer length s<br>cut shall produce a hole that meets                                                                                                               |                                                                          |                                                                                                                        | inal reaming, the diametral                                                                    |
| f.       | Honing shall be used as a final oper connot be produced by other means                                                                                                                   |                                                                          | finish better than 125 roughness he                                                                                    | ight ratio is required, and                                                                    |
| g.       | Carbide drills can be operated at hig dull or chiped condition.                                                                                                                          | gher speeds that HSS o                                                   | drills, but must be used with caution                                                                                  | n. Thay must not be used in                                                                    |
| 6. I     | install bushings per the following, in l                                                                                                                                                 | ieu of STP 56-108, T                                                     | ype I.                                                                                                                 |                                                                                                |
| a.       | The bushing installation shall be acc<br>housing into which the bushing is in<br>installation, such as the use of a pre<br>may be used to tap the bushing into                           | nstalled, or the finish ess or hammer is not p                           | on the O.D. of the bushing. Forced ermitted, and is not acceptable. A s                                                | installation of sub-zero                                                                       |
| b.       | Prior to bushing installation, the par                                                                                                                                                   | rts and housing bore s                                                   | hall be cleaned with a solvent to rea                                                                                  | move all contamination.                                                                        |
| c.       | Liquid nitrogen shall be used for all<br>by OO-ALC/LILE engineering. The<br>bushing to reach the same temperate                                                                          | e soak time of the bush                                                  |                                                                                                                        |                                                                                                |
| d.       | The bushing shall be installed into the lost time. Trial runs shall be accompanied about seven (7) seconds maximum.                                                                      |                                                                          |                                                                                                                        |                                                                                                |
| e.       | It may occasionally be necessary to a cooling of the bushing. Detail part to heating, the parts shall be heated to the maximum temperature of 250 on areas of the part expected to reach | is in process, which do<br>by the use of radiant l<br>F. Temperature mea | o not have paint or sealant or other of<br>heat techniques, such as thermal bla<br>suring devices shall be used to mon | organic material applied prior<br>nkets, infrared lamps etc;<br>itor heat and shall be located |
| f.       | The shrunken part shall be installed a primer which has been brush applied prior to installation, so as to insure evidenced by extruded primer around                                    | d. The primer shall be complete sealing of                               | e applied to the bushing outer surface gaps between the housing bore and to                                            | ce and the housing bore                                                                        |
| c:<br>tl | Penetrant inspect per ASTM E1417, Tyriteria: NO DEFECTS ALLOWED. the required sensitivity level and there evel II certified, with the inspection process.                                | The intent of NO DEI shall be no indications                             | FECTS ALLOWED is that the inspos allowed. The inspector performing                                                     | ection is conducted at<br>g the inspection! shall be                                           |
| 8. U     | Jse material 300M per AMS 6257, in                                                                                                                                                       | lieu of STM 05-501 (                                                     | 300 Tricent).                                                                                                          | ,                                                                                              |
|          |                                                                                                                                                                                          |                                                                          |                                                                                                                        |                                                                                                |
| REPAR    | ED BY                                                                                                                                                                                    |                                                                          | SYMBOL                                                                                                                 | DATE                                                                                           |
|          | ORIN HATCH                                                                                                                                                                               |                                                                          | LGMPM                                                                                                                  | 29 Sep 00                                                                                      |

| REV:        |                                   | ENGINEERING DATA REQUIREMENTS CONTINUATION SHEET  (ATTACHMENT "A")                                                   |                       |                       |                                |  |
|-------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|--------------------------------|--|
| PART NO     | JMBER                             |                                                                                                                      | NATIONAL STO          | OCK NUMBER            |                                |  |
|             | 4G5241                            | 7-113A                                                                                                               |                       | 1620 00 356 1678      |                                |  |
| 9. Fi       | nish per the follow               | ing in lieu of DS30000, and finish                                                                                   | codes C, CC, D, 1     | 7, 54, 74-74.         |                                |  |
| a.          | Cadmium plate pe                  | r QQ-P-416, Class 2, Type II, (Re                                                                                    | f.DWG 4G53434) (      | (code C)              |                                |  |
| b.          | Cadmium plate pe                  | r MIL-STD-870, Class 3, Type II                                                                                      | . (Ref. DWG 4G524     | 117) (code C)         |                                |  |
| C.          | Cadmium plate pe                  | r MIL-STD-1500, Class 3, Type I                                                                                      | I. Ref. DWG 4G524     | 417) (code CC)        |                                |  |
| d.          | Chromium plate                    | per MIL-STD-1501, Type I, Class                                                                                      | 1. (code D)           |                       |                                |  |
| e.          |                                   | et required. (code 17)                                                                                               |                       |                       |                                |  |
| f.          | One coat of epoxy MIL-P-23377, Ty | primer per MIL-P-85582, Type I<br>pe I.                                                                              | , Class 2. (code 54)  | . Alternate, One co   | at of epoxy primer per         |  |
| g.          | Two coats of top                  | coat per MIL-PRF-85285, Type I.                                                                                      | (color white, No.     | 17925 per FED-STD     | -595). (code 74-74)            |  |
|             | he required forginges.            | gs will be procured from the quali                                                                                   | fied forging source   | using the original ce | rtified forging procedures and |  |
|             | the certified dies a              | ward, the detail part bidder will pr<br>nd forging procedures are available<br>forgings for his use in the event the | e and that the forgin | ng source has an agre |                                |  |
|             | grade A. The cont                 | n, forging lot qualification will be ractor will assure that this is or hancecomplishment to the government          | s been accomplished   |                       |                                |  |
| 11. FC      | ORGING SOURCE                     | E, CONTROL AND LOCATION                                                                                              | OF DIES:              |                       |                                |  |
| <b>a.</b> 1 | Forging drawing:                  | 4G52418-993A Lockh                                                                                                   | eed GA. CAGE          | 98897                 |                                |  |
| b.          | Control of forging                | Minassco Texas Div. Highway 157 & Pipeli Fort Worth, TX 7603                                                         |                       |                       |                                |  |
| <b>c.</b> 1 | Location of forging               | g: Unknown. Die                                                                                                      | number. Unknow        | n.                    |                                |  |
|             |                                   |                                                                                                                      |                       |                       |                                |  |
|             |                                   |                                                                                                                      |                       |                       |                                |  |
|             |                                   |                                                                                                                      |                       |                       |                                |  |
|             |                                   |                                                                                                                      |                       |                       |                                |  |
|             |                                   |                                                                                                                      |                       |                       |                                |  |
| PREPARED    | Э ВҮ                              |                                                                                                                      | SYMBOL                |                       | DATE                           |  |
|             | ORIN HAT                          | СН                                                                                                                   | LGMF                  | PM                    | 29 Sep 00                      |  |

| REV:    |                                                | ENGINEERING D                                                                                                                                                                           | ATA REQUIREMENTS ATINUATION (ATTACHMENT "A")                                 | SHEET                                            |
|---------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------|
| PART    | NUMBER                                         |                                                                                                                                                                                         | NATIONAL STOCK NUMBER                                                        |                                                  |
|         |                                                | 17-113A                                                                                                                                                                                 | 1620 00 356 1678                                                             |                                                  |
| 12.     | Material Review Bo                             | pard disposition:                                                                                                                                                                       |                                                                              |                                                  |
| a.      | OO-ALC/LILE sy discrepant item. A disposition. | stem engineering retains all rights to re<br>ill deviations, minor and major, from the                                                                                                  | view and accept MRB dispositions<br>e engineering drawing package will       | prior to shipment of<br>be submitted for MRB     |
| b.      | specifications, and assembly. The cor          | ward, the contractor will certify to the and standards called out and required for the state of the standards is responsible to completely sea anufacture the stated item. Any question | he manufacture of this contracted la<br>rch all required documents and fully | nding gear component/ y understand the necessary |
| 13.     | Any surface ground<br>Grinding shall be po     | /machined after heat treat, shall be inspect MIL-STD-866.                                                                                                                               | ected for burns per MIL-STD-867,                                             | in lieu of STP 54-006.                           |
| 14.     |                                                | d the successfull bidder shall provide a cons) to LILE for final review before products                                                                                                 |                                                                              | on (routing documents and                        |
| 15.     | The following speci                            | fications are not required for the manufa                                                                                                                                               | acture of this item.                                                         |                                                  |
| a.      | Fatigue test X995                              | , static test X999, and DS 5025.                                                                                                                                                        |                                                                              | ,                                                |
|         |                                                |                                                                                                                                                                                         |                                                                              |                                                  |
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|         |                                                |                                                                                                                                                                                         |                                                                              |                                                  |
| REDAE   | RED BY                                         |                                                                                                                                                                                         | SYMBOL                                                                       | DATE                                             |
| .161 AF | ORIN HAT                                       | СН                                                                                                                                                                                      | LGMPM                                                                        | 29 Sep 00                                        |

# SOURCE QUALIFICATION STATEMENT (PL 98-525, Section 2319)

#### SECTION A. ITEM IDENTIFICATION

- 1. STOCK NUMBER (NSN):1620-00-356-1678
- 2. PART NUMBER (P/N):4G52417-113A
- 3. NOUN: Latch-Upper drag Brace Assy
- 4. APPLICATION: C-5

#### SECTION B.

JUSTIFICATION FOR ESTABLISHING A QUALIFICATION REQUIREMENT AND REASON WHY QUALIFICATION REQUIREMENT MUST BE DEMONSTRATED PRIOR TO ANY CONTRACT AWARD

- 1. The manufacture, tolerances, material availability and interpretation of engineering data along with the special skills associated with forging, machining and processing of high strength steel forgings can result in product structural or durability degradations if not properly applied.
- 2. The bidder's ability to interpret the engineering drawings, specifications and the execution of the qualification requirements specified herein are necessary to verify the structural integrity as well as form, fit, and function of the item being procured.
- 3. Failure to procure these items from a fully qualified source can degrade the mission capability of the respective aircraft and/or cause the loss of aircraft and crew.
- 4. Completion of the specified pre-contract award qualification requirements will assure the government that the offeror is capable of producing the item in compliance with the applicable technical specification/data and within the schedule and economic constraints of the government's contracts. There are sufficient technical and schedule risks, which can only be minimized by a completion of the requirements prior to contract award.

## SOURCE QUALIFICATION REQUIREMENTS (PL98-525, SECTION 2319)

STOCK NR (NSN)1620-00-356-1678 NOUN: Latch-Upper drag Brace Assy PART NUMBER (P/N)4G52417-113A AIRCRAFT:C-5

#### SECTION C

### QUALIFICATION REQUIREMENTS THAT MUST BE SATISFIED TO BECOME A QUALIFIED SOURCE:

- 1. Because of the need for uninterrupted item support to military aircraft systems while keeping with the requirements of PL 98-525, the current acquisition need not and generally will not be delayed to provide an offeror an opportunity to qualify. Normal acquisition practices at OO-ALC should preclude the denial of opportunity to any interested offeror.
- 2. The offeror must provide a pre-contract award qualification article, which meets the requirements of the engineering drawings, material specifications, and process specifications. However, successful completion of the qualification testing does not guarantee any contract award. If the offeror is deemed qualified and awarded the contract, a post-contract award first ariticle exhibit may be required to verify production capability.
- 3. The qualification article will be subjected to form, fit, and function verification as well as required testing to assure compliance with data list and other applicable procurement criteria. The qualification article shall demonstrate full compatibility and comparability with existing parts.
- 4. The required materials will be procured from a qualified source and shall meet the requirements of their respective specifications. The offeror will assure that the supplier has accomplished this and shall submit certified documentation of accomplishment of the above requirements to the purchaser along with the precontract award qualification article.
- 5. The required forgings shall be procured from the qualified forging source using the original certified forging procedures and dies. Forging material and lot qualifications shall be accomplished as required in the specified forging drawing, P/N <u>4G52418-993A</u> and specification <u>SAE AMS-F-7190</u>. The offeror shall assure that this is or has been accomplished by the forging source and will submit certified documentation of accomplishment of the above requirements to the government along with the pre-contract award qualification article.
- 6. The qualification article once submitted will become subject to such testing as deemed necessary by the U.S. Government to prove that the article meets all dimensional, processing and functional requirements. Such testing may result in the destruction of the article. Following completion of necessary testing and evaluation, the article no matter what its condition shall be returned to the contractor or disposed of at his discretion and direction whether it was found acceptable or not.
- 7. Form verification: The U.S. Government's Quality Verification Center (QVC) will be used to insure compliance with the dimensional requirements of the article. Material and processing compliance will also be verified as required.
- 8. Fit/function verification: Existing components and government test stands and fixtures will be utilized to verify physical interface and functional performance of articles.
- 9. Testing for material and process compliance.

(a) Material analysis

(e) Finish

(b) Heat treat

(f) Grain flow

(c) Grinding

(g) Other

(d) Plating

## SOURCE QUALIFICATION REQUIREMENTS (PL98-525, SECTION 2319)

STOCK NR (NSN)1620-00-356-1678 NOUN: Latch-Upper drag Brace Assy PART NUMBER (P/N)4G52417-113A AIRCRAFT:C-5

#### 10. Remarks:

- a. Organic verification capabilities exist at OO-ALC.
- b. Testing requirements outside organic capabilities will be contracted out.
- 11. The estimated cost of government testing and evaluation is \$5000.
- 12. Maximum time for testing of the qualification article will not exceed 30 days from receipt at testing agency.

#### SECTION D

## QUALIFICATION WAIVER REQUIREMENTS.

- 1. An offerer who has had previous experience in the manufacture and qualification of items, which can be correlated with this product, may apply to the design control authority at OO-ALC for a waiver of the above stated qualification requirements.
- a. The qualification waiver criteria utilized by the design control authority to perform a qualification analysis are available upon request. The qualification waiver criteria may be used as a guide in preparing the offerer's written input to the design control authority.
- b. The burden of proof for written inputs is on the offerer. The design control authority will not pursue authenticity verification of claims made by the offerer of product manufacturing experience with other Government or non-Government agencies. Unsubstantiated claims will not be considered in the waiver analysis process.
- c. This waiver will be granted if and only if the design control authority (LILE) can establish the qualifications of the offerer through the evaluation of written inputs from the offerer or from previous knowledge of the offerer's capabilities or from previous experience with the offerer on similar item acquisitions. If there is any doubt about the offerer's capability, the offerer will be required to submit a pre-qualification article. There is no guarantee of qualification by similarity. LILE reserves the right to require a pre-qualification article of all offerers.
- 2. The current acquisition need not and will not be delayed in order to provide an offerer with an opportunity to meet the requirements for qualification waiver.
- 3. Maximum time for approval of qualification by similarity will not exceed 15 days.

## SOURCE QUALIFICATION REQUIREMENTS

(PL98-525, SECTION 2319)

STOCK NR (NSN)1620-00-356-1678 NOUN: Latch-Upper drag Brace Assy

PART NUMBER (P/N)4G52417-113A

AIRCRAFT:C-5

SECTION E. SIGNATURE BLOCK

Dale Rackham

LILE Weapon System Engineer

17 Aug 00

Date

Doug Wiser

LILE Lead Engineer

Date